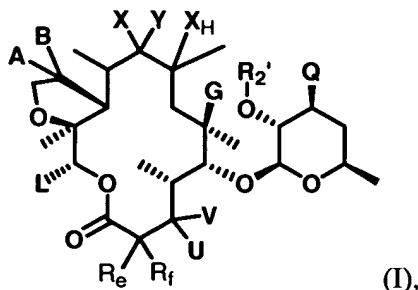


WHAT IS CLAIMED IS:

1. A compound of formula (I):



or their racemates, enantiomers, regioisomers, salts, esters or prodrugs thereof, wherein

A and B are independently selected from: halogen, NO₂, -CN, R₁, OR₁, S(O)_nR₁, -NR₁C(O)R₂, -NR₁C(O)NR₃R₄, -NHS(O)_nR₁, -C(O)NR₃R₄, -OC(O)NR₃R₄ and NR₃R₄;

Each R₁ and R₂ is independently selected from: hydrogen, deuterium, acyl, silane, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted, saturated or unsaturated alicyclic group, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heteroaromatic group, or a substituted or unsubstituted heterocyclic group;

Each of R₃ and R₄ is independently selected from: hydrogen, acyl, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted, saturated or unsaturated alicyclic group, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted heterocyclic group; or can be taken together with the nitrogen atom to which they are attached to form a substituted or unsubstituted heterocyclic or heteroaromatic ring;

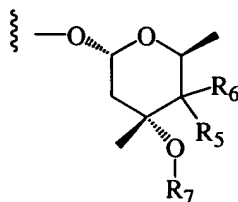
or A and B, taken together with the carbon atom to which they are attached, form a substituted or unsubstituted alicyclic, aromatic, heterocyclic or heteroaromatic ring;

or A and B, taken together with the carbon atom to which they are attached, are selected from: CO, C=CR₁R₂, C=NR₁, C=NOR₁, C=NO(CH₂)_mR₁, C=NNHR₁, C=NNHCOR₁, C=NNHCONR₃R₄, C=NNHS(O)_nR₁, or C=N-N=CR₁R₂;

L is selected from hydrogen, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted, saturated or unsaturated alicyclic group, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heteroaromatic group, or a substituted or unsubstituted heterocyclic group;

G is independently selected from hydrogen, -CN or OR₁;

one of U or V is hydrogen and the other is independently selected from: R_1 , OR_1 ,



$OC(O)R_1$, $OC(O)NR_3R_4$, $S(O)_nR_1$, or other carbohydrate or sugar moiety;

one of R_5 or R_6 is hydrogen and the other is selected from: R_1 , OR_1 , or NR_3R_4 ;

5 or R_5 and R_6 , taken together with the carbon atom to which they are attached, are selected from: $C=O$, $C=C(R_1)_2$, $C=NR_1$, $C=C(R_1)_2$, $C=NOR_1$, $C=NO(CH_2)_mR_1$, $C=NNR_3R_4$, $C=NNHCOR_1$, $C=NNHCONR_3R_4$, $C=NNHS(O)_nR_1$, or $C=N-N=C(R_1)_2$;

R_7 is independently selected from hydrogen or methyl;

or U and V, taken together with the carbon atom to which they are attached, are

10 $C=O$;

or UV and R_eR_f , taken together with the carbon atoms to which they are attached, are $-C(R_1)=CH-$;

one of R_e and R_f is selected from hydrogen or methyl, and the other is independently selected from halogen, deuterium, or R_1 .

15 Q is NR_3R_4 ;

one of X and Y is hydrogen, substituted or unsubstituted aliphatic, and the other is independently selected from: hydroxy, $-SH$, $-NH_2$, or $-NR_1H$;

or X and Y, taken together with the carbon atom to which they are attached, are selected from: $C=O$, $C=C(R_1)_2$, $C=NR_1$, $C=NOR_1$, $C=NO(CH_2)_mR_1$, $C=NNHR_1$,
20 $C=NNHCOR_1$, $C=NNHCONR_3R_4$, $C=NNHS(O)_nR_1$, or $C=N-N=C(R_1)_2$;

R_2' and R_p are independently selected from hydrogen or a hydroxy protecting group;

X_H is selected from hydrogen or halogen;

m is an integer; and

25 n is 0, 1, or 2.